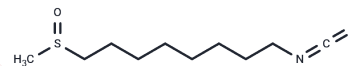


## 8-Methylsulfinyloctyl isothiocyanate

## Chemical Properties

CAS No. :	75272-81-0
Formula:	C10H19NOS2
Molecular Weight:	233.39
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	8-Methylsulfinyloctyl isothiocyanate is a compound with antimicrobial activity and notable inhibitory effects on plant growth. It also exhibits COX-2-mediated inflammatory response impairment in LPS-stimulated raw macrophages.
Targets(IC50)	Others,Antibacterial
In vitro	The compound 8-methylsulphinyloctyl isothiocyanate, found in watercress at concentrations between 1-10 $\mu$ M, inhibits the lipopolysaccharide (LPS)-induced synthesis of nitric oxide and prostaglandin E2 in RAW 264.7 macrophages[2].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2847 mL	21.4234 mL	42.8467 mL
5 mM	0.8569 mL	4.2847 mL	8.5693 mL
10 mM	0.4285 mL	2.1423 mL	4.2847 mL
50 mM	0.0857 mL	0.4285 mL	0.8569 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Jun Kawabata, et al, 8-Methylsulfinyloctyl Isothiocyanate as an Allelochemical Candidate from Rorippa sylvestris Besser, Agricultural and Biological Chemistry, Volume 53, Issue 12, 1 December 1989, Pages 3361-3362.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481